

3. A printing company sells small packages of personalized stationary for \$7 each, medium packages for \$12 each, and large packages for \$15 each. Yesterday the company sold 9 packages of stationary, collocating \$86. The company sold three times as many medium packages as large packages. Find the number of each size package sold.

$$s, m, l$$

$$s + m + l = 9$$

$$7s + 12m + 15l = 86$$

$$\rightarrow m = 3l$$

$$s = 5, m = 3, l = 1$$

Assignment

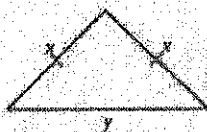
1. Scout is selling Halloween costumes at his shop "Scoutin for Candy". He sells 3 costumes: skeleton, zombie and witch. The skeleton costume costs \$22, the zombie is \$15 and the witch is \$34. Last year, he sold a total of 77 costumes for a total of \$1,898. He sold twice as many witch costumes as zombie costumes. Find how many of each costumes were sold.

2.

i. Reason Talisha receives a \$25 gift card to a digital application store. Each game download costs \$3, and each song download costs \$1. Talisha downloads 1 more song than games and uses all of the \$25. How many of each application did Talisha download? © MRZ

3.

Performance Task The triangle has a perimeter of 30 cm, and y is twice the length of x .



Part A Write a system of equations to represent this situation.

Part B Write a matrix to represent the system of equations you wrote in part (a).

Part C Find the reduced row echelon form of the matrix you wrote in part (b).

Part D What does the third column of the matrix you found in part (c) represent?